

Update for Senator Nelson

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Fort Douglas, Salt Lake City, Utah DESERET TEST CENTER 1962-1973

- Joint Center for Operational Chemical and Biological Warfare Testing - Project 112 / SHAD
- 62 Tests Cancelled 134 Tests Planned 46 Tests Conducted 26 Tests Status TBD
- Fact sheets released on 42 of the 46 conducted tests Names of those present during testing provided to VA
- http://deploymentlink.osd.mil/current_issues/shad/shad_intro.shtml
- http://www.va.gov/shad/



Formerly Used Defense Site Program (FUDS)

- FUDS Program cleans up properties that were formerly owned, leased possessed, or operated by
- Addresses:
- Hazardous, Toxic, & Radioactive Waste (HTRW)
- Unexploded Ordnance, Discarded Military Munitions, Chemical Warfare Materiel
- Building Demolition & Debris Removal
- Florida FUDS Projects
- 25 Hazardous, Toxic, and Radioactive Waste Sites
- 67 Ordnance Sites
- 10 Potential Chemical Warfare Material Sites
- Cost to Complete \$479 Million for HTRW
- Time Estimated to Complete Cleanup
- 2020 HTRW
- TBD Ordnance and Suspect CWM



Chemical Warfare Material Sites Formerly Used Defense Sites in Florida Program



Florida Sites

Sites Of Interest

- Yeehaw Junction
- Avon Park
- Cape Canaveral
- Panama City
- Key West
- Fort Pierce
- Boca Raton

Other

(FUDS Suspect CWM Sites)

- Brooksville AAF
- Bushnell AAF
- Chassahowitzka Swamp
- Drew Army Airfield
- Ft. Jefferson Nat. Monument/ Dry Tortugas Keys
- Lakeland Army Airfield
- Orlando Army Airfield
- Withlacoochee AAF



Sites of Interest

Yeehaw Junction

- Not yet determined to be eligible for the FUDS Program
- Four killed TX trials and seven live agent trials were conducted
- Information has been declassified by the SHADS 112 Project
- Not considered to have human health effects

Avon Park Air Field

- Not yet determined to eligible for FUDS Program
- agent occurred on active bombing range Gas chamber exercises, field trials using defoliants, & test spraying of anti-crop
- No residual CWM hazards found on FUDS

Cape Canaveral

- Biological test site identified (Cape Kennedy)
- Panama City
- Biological test site identified

Key West

- Biological test site identified
- Ft Pierce
- Biological test site identified
- Suspect CWM site

Boca Raton

Suspect CWM site

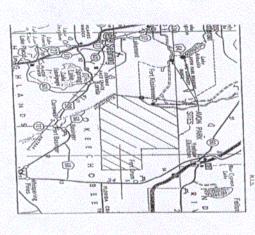


Yeehaw Junction

- History
- graminis var. tritici, commonly known as stem rust of TX is the agent symbol for the fungus Puccinia
- Biological agent trials were conducted
- the SHADS 112 Project Actions Taken: Information has been declassified by
- short-term or long-term human health effects. crops. It is not ordinarily considered to have either biological warfare agent directed against agricultural plants, and therefore was considered a potential Residual Hazard: This fungal species is toxic to
- Future Actions: Records will be reviewed to determine eligibility for FUDS Program
- public Community Involvement: Documents prepared by FUDS will be made available to regulators and the



Avon Park Airfield



- History
- Toxic gas yard
- Training area for gas chamber exercises
- Field trials using defoliants
- Test low volume and low altitude spraying of anticrop agent
- Actions Taken
- 1996 Site visit and interviews with Okeechobee
 County sheriffs and owners, indicated that no ordnance nor explosives, other than the bomb scrap piles have ever been found on the FUDS sites
- Residual Hazards
- No CWM hazards identified on FUDS, may have unexploded ordnance
- Future Actions:
- Records will be reviewed to determine eligibility for FUDS Program (Includes classified material)
- Request Declassification
- will be made available to regulators and the public Community Involvement: Documents prepared by FUDS



us Army corps CWM Scoping and Security Study

- of CWM Ensure Security Risk does not exist in terms of a source
- completing final action for this study Ensure Safety Risk does not pose a threat prior to
- adequate estimated cost to complete for future response Characterize/Research Sites sufficiently to prepare
- properties in consultation with stakeholders Re-evaluate No DoD Action Indicated (NDAI)
- Prioritize Sites for future Response Actions
- Take Emergency Action if Imminent Hazard is Found
- Timeline/Milestones
- -Begin Fieldwork Jun 03
- -Final Report Jun 05

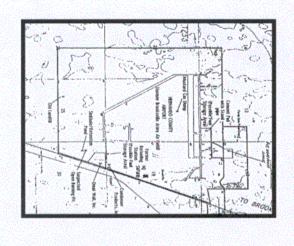


FUDS CWM Sites In Florida

10 Sites	Total
Drew Field	Record Review / Historical Research / Public Involvement
Withacoochee AF	
Orlando AAF	
Lakeland AAF	
Ft Pierce	
Ft Jefferson	
Boca Raton	
Chassahowitzka	Research/ Public Involvement
Bushnell AAF	Records Review / Site Visit / Historical
	Investigation / Public Involvement
Brooksville	Records Review / Site Visit / Intrusive



Brooksville Army Airfield



History

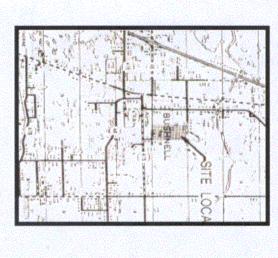
- Drums (contents unknown) were burned and dumped
- Leaking experimental mustard-filled munitions was removed from a box car (disposition unknown)
- One 55-gallon drum of thickened mustard was disposed (undefined dumping method)

Actions Taken

- fire after chemicals splashed out and burned two people. 1946 Chemical filled bombs were burned in a gasoline
- 1995 Site characterization by geophysical mapping
- 1997 Evaluation of alternatives, removal started
- 1998 Completed fencing to control access
- use risk to the public is lessened because of current land Residual Hazards –Buried drums may remain, but the
- 2003 Future Actions – Site investigations are planned in
- provided to the regulators and the public. Community Involvement - The documents will be



Bushnell Army Airfield



- Types of test run from this facility include: location; munitions loading facilities only. History: Testing did not take place at this
- spray tanks) tested for their dispersal generators, land mines, rocket heads, and efficiency Chemical munitions (bombs, shells, thermal
- contaminated sand to assault troops Determined the hazard of mustard-
- Tested insecticides, fungicides, and miticides
- Actions Taken:
- 1993 Site survey by automobile, on foot activities or hazards were observed. and helicopter overflight. No intrusive
- Residual Hazards None
- Future Actions Records will be reviewed to confirm no CWM was buried at the site
- shared with the stakeholders Community Involvement – Reports will be



Chassahowitzka Swamp

- Appears probable that some chemical bombing did take place at this site
- 3.5 sections of land to the west of the proposed bombing area used for vegetation defoliant testing
- interviews found no evidence of chemical warfare materiel (CWM) Actions Taken: 1993 Site survey and
- Residual Hazards None
- to confirm no CWM was buried at the site Future Actions - Records will be reviewed
- shared with the stakeholders Community Involvement – Reports will be



Boca Raton



History

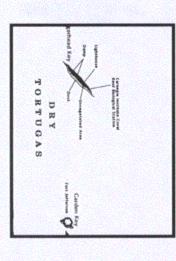
- Incendiary bomb demonstration (class exercise, no bombing target on site)
- Gas chamber exercises
- Gas identification test kits
- all CWS materials October 1947, the base chemical officer had turned in

Actions Taken

- conventional ordnance employees of firms found no evidence of CWM or installation personnel, current residents, and current 1994 Site Visit and interviews with former
- hazard thought to exist at the site Residual Hazards: There are no known residual
- Actions not dependent on classified material Future Actions: Declassify additional documents
- Stakeholders Community Involvement: Coordinate Findings with



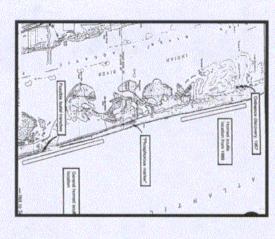
Ft. Jefferson Nat. Monument (Dry Tortugas Keys)



- 5-gallon land mines and other methods were used to spread mustard agent on the beaches
- Actions Taken
- 1950 inspection detected no contamination
- and currents in the Gulf of Mexico. No Residual Hazards: The area where the materiel Future Actions hazard exists from chemical warfare been replaced several times due to storms mustard agent was tested has eroded and
- regulators and a public meeting may be held documents will be shared with the Community Involvement: Future



Fort Pierce



- The testing of the effectiveness of the mustard agent spread on the sand on South Hutchison Island
- Actions Taken:
- identified from chemical warfare materiel 1993 Site visit and interviews, no concerns were
- project to implement use restrictions and public education 1996 Action Memorandum for a conventional OEW
- Several OE items have been removed
- reported at this site. There are ongoing ordnance projects. Residual Hazards: No CWM hazards were found or
- Future Actions: Further records review will be conducted to determine if CWM were used at the property.
- Community Involvement:
- Action Memorandum was reviewed by the Florida meetings were held Department of the Environment and several public
- and a public meeting will be held Future documents will be shared with the regulators



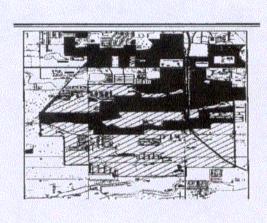
Lakeland Army Airfield



- Chemical warfare demonstration area that included various facilities for outdoor classes.
- Ordnance Dump Chemical magazine was setup in the area of the
- Use of 100 percent live mustard in training
- Actions Taken:
- 1993 Site visit and interviews, no environmental concerns were identified
- any chemical warfare materiel or other Residual Hazards: There does not appear to be munitions remaining
- action alternative is currently being prepared Future Actions: Documentation to provide a no
- public meeting will also be held be provided to the regulators and the public. A Community Involvement: The documents will



Orlando Army Airfield



- History
- toxic gas and decontamination yard
- Actions Taken
- 1993 Site visit and interviews, no environmental concerns were identified
- Residual Hazards: None identified
- property conducted to determine if CWM were used at the Future Actions: Further records review will be
- public meeting will be held Community Involvement: Future documents will be shared with the regulators and a



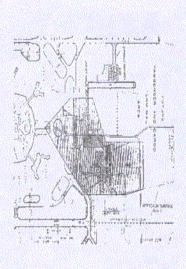
Withlacoochee Airfield



- mustard-filled bombs dropped from aircraft
- Experiments were conducted using mustard-filled 4.2inch chemical mortar rounds and 7.2-inch rockets
- Actions Taken
- 1950 clearance operation of chemical-filled items
- Site visit and overflight of the entire area in 1993
- 1994 Geo-physical mapping and surface sweeps.
- Residual Hazards
- This area is believed to present a potential for the existence of CWM
- considered minimal Unless intrusive activities are undertaken, the risk is
- Future Actions:
- Record review and a determination if intrusive activities are required
- due to terrain Further intrusive investigation is not feasible at this time
- regulators and a public meeting will be held Community Involvement: Draft plans will be shared with the



Drew Army Airfield



- Storage and use of significant amounts of toxic, incendiary, and smoke agents and munitions, as well as explosives
- Actions Taken:
- removed from the site. Two contained mustard
- 1966 an Edgewood Technical Escort Unit obtained over 3,700 soil samples to check for remaining agent contamination. Fourteen vials from Chemical Agent Identification Sets were discovered and removed
- 1993 the Corps of Engineers conducted a site visit and obtained interviews; no concerns were identified
- Residual Hazards: This area is not believed to present any immediate threat to human health and safety.
- Future Actions: Documentation to provide a no action alternative is currently being prepared for this site
- Stakeholder Involvement: The documents will be provided to the regulators and the public. A public meeting will also be held.